

## CLAIMS

1. A process for enhancing reproductive performance in a companion animal comprising feeding said animal a diet including omega-6 and omega-3 fatty acids, wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 3.5:1 to about 12.5:1.
2. The process of claim 1 wherein at least 15% of the total fatty acids in said diet are omega-6 fatty acids.
3. The process of claim 1 wherein at least 2% of the total fatty acids in said diet are omega-3 fatty acids.
4. The process of claim 1 wherein said diet includes, on a dry matter basis, from about 2.5 to 7.5% by weight omega-6 fatty acids and from about 0.3 to 1.5% by weight omega-3 fatty acids.
5. The process of claim 1 wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 5:1 to about 10:1.
6. The process of claim 1 wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 5:1 to about 8:1.
7. The process of claim 1 wherein said animal is a dog.
8. The process of claim 7 wherein said diet comprises, on a dry matter basis, about 22 to 44% by weight protein, and about 10 to 30% by weight fat.
9. The process of claim 7 wherein said diet comprises, on a dry matter basis, about 25 to 35% by weight protein, and about 15 to 25% by weight fat.

10. The process of claim 1 wherein said animal is a cat.
11. The process of claim 10 wherein said diet comprises, on a dry matter basis, about 30 to 45% by weight protein, and about 10 to 30% by weight fat.
12. The process of claim 10 wherein said diet comprises, on a dry matter basis, about 32 to 42% by weight protein, and about 15 to 28% by weight fat.
13. The process of claim 1 wherein said animal is fed said diet throughout the reproductive process.
14. A process for maintaining maternal essential fatty acid status in a companion animal comprising feeding said animal a diet including omega-6 and omega-3 fatty acids, wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 3.5:1 to about 12.5:1.
15. The process of claim 14 wherein said animal is a dog.
16. The process of claim 14 wherein said animal is a cat.
17. A process for maintaining litter size through subsequent parities of a companion animal comprising feeding said animal a diet including omega-6 and omega-3 fatty acids, wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 3.5:1 to about 12.5:1.
18. A process for increasing live births through subsequent parities of a companion animal comprising feeding said animal a diet including omega-6 and omega-3 fatty acids, wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 3.5:1 to about 12.5:1.

19. A process for decreasing still births through subsequent parities of a companion animal comprising feeding said animal a diet including omega-6 and omega-3 fatty acids, wherein the ratio of said omega-6 fatty acids to said omega-3 fatty acids is from about 3.5:1 to about 12.5:1.